

DEPARTMENT OF THE ARMY
Omaha District, Corps of Engineers
106 South 15th Street
Omaha, Nebraska 68102-1618

:NOTICE: Failure to acknowledge : Solicitation No. DACW45 02 B 0005
:all amendments may cause rejec- :
:tion of the bid. See FAR : Date of Issue: 14 Mar 2002
:52.214-3 of Section 00100 : Date of Opening: 16 Apr 2002

Amendment No. 0001
08 April 2002

SUBJECT: Amendment No. 0001 to Specifications and Drawings for Construction of
Rehabilitation of Federal Streambank Stabilization Project 2002,
Missouri River, Mile 800 to 753, Nebraska and South Dakota.
Solicitation No. DACW45 02 B 0005.

TO: Prospective Bidders and Others Concerned

1. The specifications and drawings for subject project are hereby modified as follows (revise all specification indices, attachment lists, and drawing indices accordingly).

a. Specifications. (Descriptive Changes.)

(1) Delete the Construction Schedule attached to the end of the specifications and substitute the new revised Construction Schedule attached to this Amendment.

b. Drawings (Not Reissued). The following drawing sheets are revised as indicated below with latest revision date of 8 Apr 2002. These drawings are not reissued with this amendment.

(1) Sheet MR28E004, General Plan Sheet 2, revise as shown on the attached sheet, it now identifies H.P. 783.51.

(2) Sheet MR28E005, General Plan Sheet 1, revise as shown on the attached sheet, it now identifies REF 784.36 and REV 783.97

(3) Sheet MR28E008, General Plan, revise as shown on the attached sheet, it now identifies REF 768.51 and REV 768.0.

(4) Sheet MR28E009, General Plan Sheet 1, revise as shown on the attached sheet, it now identifies revetments 762.1 and 761.85.

(5) Sheet MR28E021, Delete "OPTION 2" note above title block.

(6) Sheet MR28E022, Delete "OPTION 2" note above title block.

2. This amendment is a part of the bidding papers and its receipt shall be acknowledged on the Standard Form 1442. All other conditions and requirements of the specifications remain unchanged. If the bids have been mailed prior to receiving this amendment, you will notify the office where bids are opened, in the specified manner, immediately of its receipt and of any changes in your bid occasioned thereby.

a. Hand-Carried Bids shall be delivered to the U.S. Army Corps of Engineers, Omaha District, Contracting Division (Room 301), 106 South 15th Street, Omaha, Nebraska 68102-1618.

b. Mailed Bids shall be addressed as noted in Item 8 on Page 00010-1 of Standard Form 1442.

3. Bids will be received until 2:00 p.m., local time at place of bid opening, 16 Apr 2002.

Attachments:

Spec Pages listed in 1.a. above

Dwgs. listed in 1.b. above

U.S. Army Engineer District, Omaha
Corps of Engineers
106 South 15th Street
Omaha, Nebraska 68102-1618

08 Apr 2002
MFS/4411

STRUCTURE	LENGTH (feet)	STATIONING	DESCRIPTION	RIVER MILE	NORMAL W.S. (ft.)	STONE (tons)	EXCAV. (c.y.)
Cedar County Park Area, Nebraska							
REV 799.15	30	1+50 to 1+80	Rehabilitate revetment	799.1	1150.6	66	---
	20	6+85 to 7+05	" "	798.9	1150.5	22	---
	40	19+10 to 19+50	Restore revetment	798.8	1150.3	100	---
Total, Cedar Co. Park area:					188 tons		
Brooky Bottom Road Area, Nebraska							
REF 786.04	25	0+80 to 1+05	Reinforce refusal	786.0	1138.1	50	---
HP 785.65	20	0+40 to 0+60	Rehabilitate L-head spur	785.7	1137.7	22	---
REV 785.50 ¹	450	5+50 to 10+00	Rehabilitate revetment	785.3	1137.2	450	---
HP 785.15	15	0+95 to 1+10	Rehabilitate hardpoint spur	785.2	1137.4	45	---
REV 784.70	20	3+40 to 3+60	Rehab. revetment	784.6	1136.3	22	---
HP 783.8	10	1+63 to 1+73	Rehab. hardpoint spur	783.8	1135.1	25	---
HP 783.72	15	1+03 to 1+18	Restore hardpoint spur	783.7	1135.0	66	---
HP 783.42	15	1+24 to 1+39	Rehab. hardpoint spur	783.4	1134.7	25	---
REV 783.20 ²	50	17+00 to 17+50	Rehab. revetment	783.1	1134.4	125	---
	100	26+25 to 27+25	" "	782.9	1134.3	300	---
Total, Brooky Bottom Rd. area:					1130 tons		
Vermillion Boat Club Area, South Dakota							
REF 785.81	30	0+40 to 0+70	Reinforce refusal	785.5	1137.9	75	---
HP 785.3	15	0+70 to 0+85	Restore hardpoint spur	785.3	1137.2	25	---
HP 784.36 ³	15	0+85 to 1+00	Restore hardpoint spur	784.4	1135.9	68	---
HP 784.31	15	0+85 to 1+00	" " "	784.3	1135.8	75	---
REV 783.97	30	0+00 to 0+30	Reinforce upstream edge of revetment	783.6	1134.9	88	---
Total, Vermillion Boat Club area:					331 tons		

CONSTRUCTION SCHEDULE: Rehab. of Fed. Streambank Stabilization Projects, 2002
Missouri River, Mile 800 to 753 - Nebraska and South Dakota

Date: (Rev) 01 Apr 02

<u>STRUCTURE</u>	<u>LENGTH</u> <u>(feet)</u>	<u>STATIONING</u>	<u>DESCRIPTION</u>	<u>RIVER</u> <u>MILE</u>	<u>NORMAL</u> <u>W.S. (ft.)</u>	<u>STONE</u> <u>(tons)</u>	<u>EXCAV.</u> <u>(c.y.)</u>
<u>Mulberry Bend Area, Nebraska</u>							
REV 775.9	50	1+50 to 2+00	Rehabilitate revetment	775.9	1124.8	100	---
	50	3+35 to 3+85	" "	775.8	1124.8	100	---
	175	6+45 to 8+20	" "	775.8	1125.2	265	---
REV 775.1	20	1+80 to 2+00	" "	775.0	1123.9	22	---
REV 774.72	50	1+45 to 1+95	" "	774.7	1123.5	50	---
	30	2+95 to 3+25	" "	774.7	1123.5	25	---
REV 774.6	70	3+30 to 4+00	" "	774.5	1123.3	70	---
Total, Mulberry Bend area:						632 tons	
<u>Vermillion River Chute Area, South Dakota</u>							
REV 772.0	30	5+35 to 5+65	Rehabilitate revetment	772.0	1120.7	44	---
	25	7+75 to 8+00	" "	772.0	1120.7	25	---
REV 771.9	50	5+70 to 6+20	" "	771.8	1119.9	125	---
	20	46+00 to 46+20	" "	771.0	1118.8	20	---
	25	46+40 to 46+65	" "	771.0	1118.8	25	---
	60	49+20 to 49+80	" "	771.0	1118.8	110	---
	70	53+65 to 54+35	" "	770.9	1118.7	88	---
REV 770.1 ⁴	125	27+75 to 29+00	" "	769.7	1117.3	185	---
	30	30+00 to 30+30	" "	769.7	1117.3	50	---
REV 769.58	120	1+00 to 2+20	" "	769.6	1117.1	120	---
Total, Vermillion R. Chute area:						792 tons	
<u>Ryan Bend Area, Nebraska</u>							
REF 768.51 ⁵	90	0+30 to -0+60	Extend refusal	768.5	1115.5	405	420
REV 768.5	30	-0+30 to 0+00	Rehabilitate revetment	768.5	1115.5	66	---
	210	3+40 to 5+50	" "	768.4	1115.4	315	---
REF 768.35	25	2+25 to 2+50	Reinforce refusal	768.4	1115.3	50	---
REV 768.5	20	8+25 to 8+45	Rehabilitate revetment	768.3	1115.3	22	---
	55	12+50 to 13+05	" "	768.3	1115.3	110	---
REV 768.0	30	11+30 to 11+60	" "	767.8	1113.7	44	---
	60	12+95 to 13+55	" "	767.8	1113.7	88	---

continued on page 3

CONSTRUCTION SCHEDULE: Rehab. of Fed. Streambank Stabilization Projects, 2002
Missouri River, Mile 800 to 753 - Nebraska and South Dakota

Date: (Rev) 01 Apr 02

STRUCTURE	LENGTH (feet)	STATIONING	DESCRIPTION	RIVER MILE	NORMAL W.S. (ft.)	STONE (tons)	EXCAV. (c.y.)
Ryan Bend Area, continued							
REV 768.0	35	19+15 to 19+50	Rehabilitate revetment	767.7	1113.6	70	---
REV 767.5	170	25+30 to 27+00	Restore revetment	767.1	1113.0	510	---
Total, Ryan Bend area:					1680 tons		
Ionia Bend Area, Nebraska							
REV 762.1 ⁶	100	10+00 to 11+00	Rehabilitate revetment	762.1	1108.1	150	---
HP 761.2 ⁷	60	2+86 to 2+26	Construct hardpoint root wing	761.2	1106.8	210	280
HP 761.15	15	2+40 to 2+55	Restore hardpoint spur	761.2	1107.0	75	280
REV 760.9	50	23+20 to 23+70	Rehabilitate revetment	760.6	1106.1	44	---
	35	24+30 to 24+65	" "	760.6	1106.1	25	---
	40	25+75 to 26+15	" "	760.6	1106.1	44	---
	20	33+70 to 33+90	" "	760.5	1106.0	22	---
REV 759.7	130	15+10 to 16+40	Restore revetment	759.4	1104.6	390	---
	65	16+65 to 17+30	" "	759.4	1104.6	195	---
	70	34+70 to 35+40	" "	759.0	1104.1	210	---
Total, Ionia Bend area:					1365 tons		
Elk Point Area, South Dakota							
REV 756.18	45	0+55 to 1+00	Rehabilitate revetment	756.2	1102.4	45	---
REV 756.05	85	7+40 to 8+25	" "	755.8	1101.0	170	---
	40	8+60 to 9+00	" "	755.8	1101.0	88	---
REV 755.7	60	11+65 to 12+25	" "	755.2	1101.2	66	---
REV 755.25	80	8+55 to 9+35	" "	755.1	1101.0	88	---
	30	18+70 to 19+00	" "	754.9	1100.3	75	---
HP 754.93	20	2+35 to 2+55	Restore hardpoint spur	754.9	1100.3	70	---
REV 754.77	90	3+60 to 4+50	Rehab. revetment	754.7	1100.1	180	---
	40	6+70 to 7+10	" "	754.7	1100.0	44	---
	90	16+30 to 17+20	" "	754.5	1100.3	180	---
REV 754.30	40	0+15 to 0+55	" "	754.3	1099.7	75	---
REV 753.66	35	2+00 to 2+35	" "	753.6	1099.2	44	---
	20	8+00 to 8+20	" "	753.6	1099.1	<u>44</u>	---
Total, Elk Point area:					1169 tons		

CONSTRUCTION SCHEDULE: Rehab. of Fed. Streambank Stabilization Projects, 2002
Missouri River, Mile 800 to 753 - Nebraska and South Dakota

date: 11 Feb 2002

Total Quantities for Basic Project

7287 tons of stone 3900 linear feet
980 c.y. excavation

Notes:

1. The basic work on REV 785.50, Sta. 5+50 to 10+00 would use only half the stone needed for a full structural repair. If the contract option is executed, this 450-foot section of revetment would receive a total of 900 tons.
2. Placing stone on REV 783.20 will involve removal of debris along the eroding bank (e.g., concrete rubble, rebar). Access to the lower bank may require removal of a large tree on the upper bank.
3. Assumed stations for HP784.36, out to end of spur.
4. REV 770.1, Sta. 27+50 to 27+80 - This repair item is located at the upstream end of the revetment (Sta. 27+50). If the pre-construction measurement shows that the eroded area is actually upstream of Sta. 27+50, this item would be dropped from the scheduled work.
5. REF 768.51 - The original refusal is aligned with the bank of the side channel entering the river from the west. The refusal extension shall be buried in a line running 30° back into the bank.
6. Broken concrete covering the bank shall be pushed down into the water. This operation shall minimize disturbance to the remnants of the underlying stone revetment. Most all of the relocated concrete should be 2 feet below the normal water surface. The new stone then will be placed on the bank above the relocated concrete, as shown in the plans.
7. HP 761.2 - The root extension shall be aligned 90° to the hardpoint centerline, thus extending upstream.
8. (In Option below) HP 783.45 - This spur rehab. is a low priority item, and is contingent on the contractor working with the property owner to ensure that the work can be performed without significant disturbance to attendant facilities (dock and stairs).

OPTION

<u>STRUCTURE</u>	<u>LENGTH</u> <u>(feet)</u>	<u>STATIONING</u>	<u>DESCRIPTION</u>	<u>RIVER</u> <u>MILE</u>	<u>NORMAL</u> <u>W.S. (ft.)</u>	<u>STONE</u> <u>(tons)</u>	<u>EXCAV.</u> <u>(c.y.)</u>
<u>Cedar County Park Area, Nebraska</u>							
REV 799.15	30	17+00 to 17+30	Rehabilitate revetment	798.8	1150.3	44	---
<u>Brooky Bottom Road Area, Nebraska</u>							
REV 785.50	50	0+50 to 1+00	Rehabilitate revetment	785.5	1137.5	100	---
	150	1+00 to 2+50	" "	785.5	1137.5	150	---
	50	2+50 to 3+00	" "	785.5	1137.4	100	---
¹	450	5+50 to 10+00	Rehabilitate revetment	785.3	1137.2	450	---

(Option continued on page 5)

CONSTRUCTION SCHEDULE: Rehab. of Fed. Streambank Stabilization Projects, 2002

Missouri River Mile 800 to 753

date: 11 Feb 2002

OPTION (continued from page 4)

<u>STRUCTURE</u>	<u>LENGTH</u> <u>(feet)</u>	<u>STATIONING</u>	<u>DESCRIPTION</u>	<u>RIVER</u> <u>MILE</u>	<u>NORMAL</u> <u>W.S. (ft.)</u>	<u>STONE</u> <u>(tons)</u>	<u>EXCAV.</u> <u>(c.y.)</u>
<u>Brooky Bottom Road Area, Nebraska</u>							
HP 785.1	10	0+85 to 0+95	Rehabilitate hardpoint spur	785.1	1136.9	25	---
HP 783.51	10	0+88 to 0+98	" " "	783.5	1134.8	25	---
HP 783.45 ⁸	20	1+40 to 1+60	Rehabilitate L-head spur	783.5	1134.7	25	---
<u>Mulberry Bend Area, Nebraska</u>							
REV 775.9	35	12+20 to 12+55	Rehabilitate revetment	775.7	1124.6	44	---
	20	24+90 to 25+10	" "	775.4	1124.3	22	---
REV 774.9	40	5+00 to 5+40	" "	774.8	1123.7	44	---
<u>Vermillion River Chute Area, South Dakota</u>							
REV 771.9	35	32+25 to 32+60	Rehabilitate revetment	771.3	1119.7	25	---
<u>Ryan Bend Area, Nebraska</u>							
REV 768.0	25	1+00 to 1+25	Rehabilitate revetment	768.0	1114.7	25	---
	20	3+05 to 3+25	" "	768.0	1114.7	22	---
	20	5+15 to 5+35	" "	767.9	1114.7	22	---
REV 767.5	40	7+65 to 8+05	" "	767.4	1113.3	66	---
<u>Ionia Bend Area, Nebraska</u>							
REV 761.85	30	8+20 to 8+50	Restore revetment	761.7	1107.8	90	---
<u>Elk Point Area, South Dakota</u>							
REV 755.25	35	10+95 to 11+30	Rehabilitate revetment	755.1	1101.0	50	---
REV 754.77	40	11+50 to 11+90	" "	754.6	1099.9	50	---
	20	12+85 to 13+05	" "	754.5	1099.8	22	---
HP 753.85	10	6+90 to 7+00	Rehabilitate hardpoint spur	753.9	1099.3	25	---
HP 753.80	10	5+70 to 5+80	" " "	753.8	1099.3	25	---

Total stone for Option: 1451 tons

M A T C H L I N E S H



REF. 783.26
SEE NOTE

Y

O T A

VERMILLION BOAT CLUB AREA



REF. 783.71

REVET. 783.7
REVET. 783.91
REVET. 783.9

REVET. 783.9

H.P. 783.6
H.P. 783.5

REVET. 783.95

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ISLAND

02-B-0005 Amend. No. 1

MR 28 E 005 (partial)

Vermillion Boat Club Area

Gen. Plan Sheet 1

1" = 800'

Range 817.7

N15°18'09"E

Sta. 75+0.78
4x4 Conc. Mon.
Elev. 54.03

N 01°54'23"E

N 01°58'09"E - 2.05' Stadia

784

0+00

0+50

1+00

1+50

2+00

2+50

3+00

3+50

4+00

4+50

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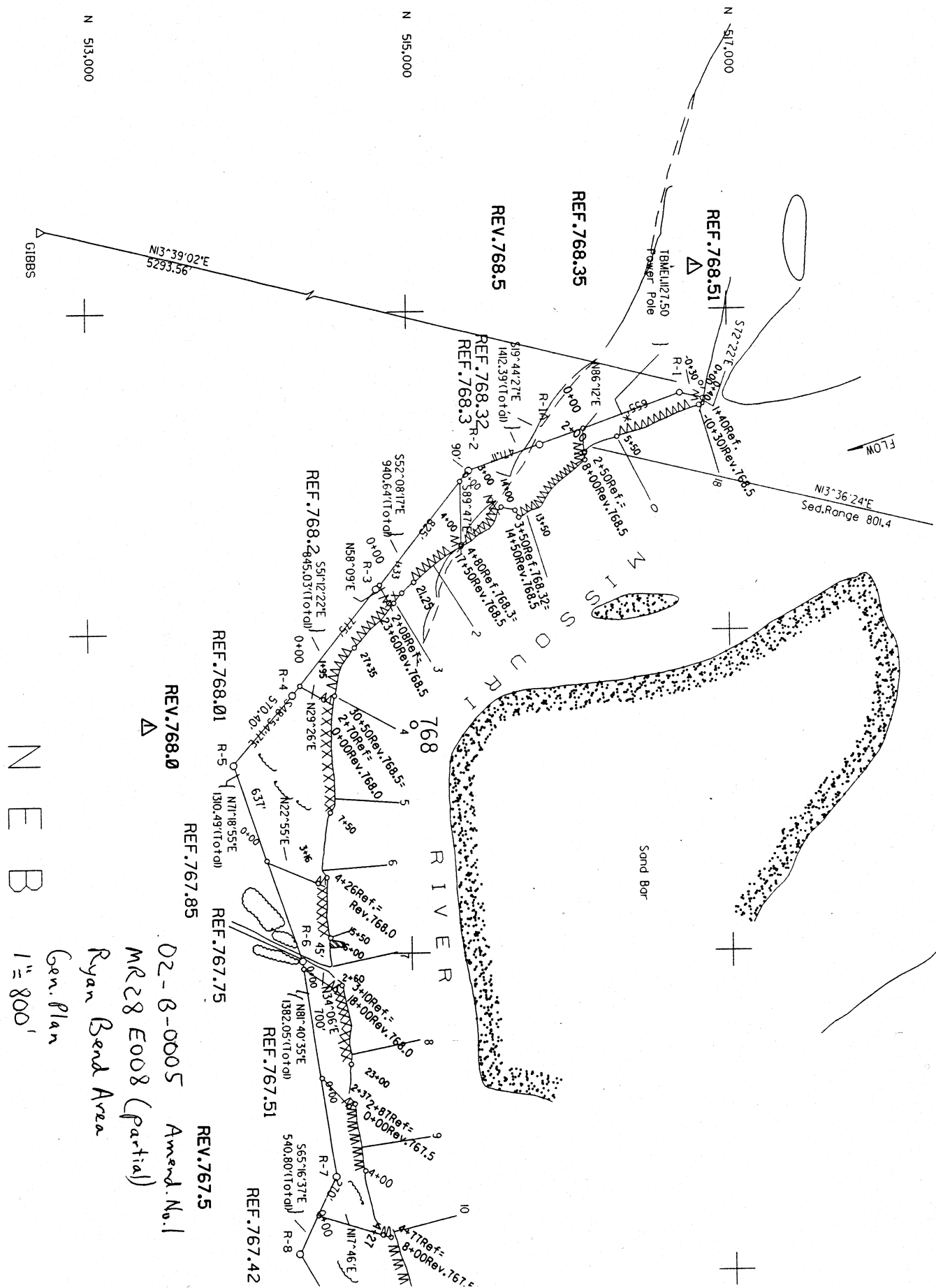
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D I X O

N E B

Gen. Plan

Ryan Bend Area

MR28 E008 (partial)

02-B-0005 Amend. No. 1

REV. 767.5

REV. 767.42

REF. 767.51

REF. 767.75

REF. 767.85

REF. 768.01

REF. 768.0

REF. 768.2

REF. 768.3

REF. 768.32

REF. 768.35

REF. 768.51

N 513.000

N 515.000

N 517.000

